

ABSTRACT OF THE DISCLOSURE

To provide a map generation device according to the present invention which extracts a polygon shape of a building having a complex upper portion structure from a wide area image. The map generation device includes an image appointment unit that receives appointment of at least one position in a building existing within an aerial photograph, a polygon extraction unit that extracts a building region based on a result of discriminating a color around the appointed position and extracts a polygon line of the building region, and a vector generation unit that generates a vector of the polygon line of the building region.